



AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A ventilating device comprising:

a housing having an outdoor air passage and an indoor air passage;

a shaft rotatably supported by the housing, the shaft being rotatable about an axis which is substantially perpendicular to a direction of an air flow flowing in at least one of the outdoor air passage and the indoor air passage; and

a plurality of heat exchanging elements mounted at an outer circumferential surface of the shaft, the heat exchanging elements being rotatable on the shaft by the air flow to enter into and out of the outdoor air passage and the indoor air passage, thereby exchange-exchanging heat between air in the outdoor air passage and air in the indoor air passage.

2. (Currently Amended) ~~The ventilating device of claim 1~~ A ventilating device comprising:

a housing having an outdoor air passage and an indoor air passage;

a shaft rotatably supported by the housing, the shaft being rotatable about an axis which is substantially perpendicular to a direction of an air flow flowing in at least one of the outdoor air passage and the indoor air passage; and

a plurality of heat exchanging elements mounted at an outer circumferential surface of the shaft, the heat exchanging elements being rotatable on the shaft by the air flow to exchange heat between air in the outdoor air passage and air in the indoor air passage,

wherein a hub is formed at an outer circumferential surface of the shaft, in which an inner surface of the heat exchanging elements is mounted.

3. (Previously Presented) The ventilating device of claim 2, wherein the heat exchanging elements are mounted at the outer circumferential surface of the hub at regular intervals, each of the heat exchanging elements having substantially a same curved surface.

4. (Previously Presented) The ventilating device of claim 1, wherein a support rib is mounted at an outer circumferential surface of the heat exchanging elements.

5. (Currently Amended) ~~The ventilating device of claim 1~~ A ventilating device comprising:

a housing having an outdoor air passage and an indoor air passage;

a shaft rotatably supported by the housing, the shaft being rotatable about an axis which is substantially perpendicular to a direction of an air flow flowing in at least one of the outdoor air passage and the indoor air passage; and

a plurality of heat exchanging elements mounted at an outer circumferential surface of the shaft, the heat exchanging elements being rotatable on the shaft by the air flow to exchange heat between air in the outdoor air passage and air in the indoor air passage,

wherein each of the heat exchanging elements has a concave surface and a convex surface opposite to the concave surface, wherein when the concave surface faces an inlet of one of the outdoor air passage and the indoor air passage, the convex surface faces an outlet of the one of the outdoor air passage and the indoor air passage.

6. (Previously Presented) The ventilating device of claim 5, wherein the heat exchanging element is made of non-woven fabric.

7. (Previously Presented) The ventilating device of claim 1, further comprising a heat exchanging housing within the housing to communicate with the outdoor air passage and the indoor air passage, the heat exchanging housing surrounding the heat exchanging elements.

8. (Currently Amended) ~~The ventilating device of claim 1, further comprising:~~ A ventilating device comprising:

a housing having an outdoor air passage and an indoor air passage;

a shaft rotatably supported by the housing, the shaft being rotatable about an axis which is substantially perpendicular to a direction of an air flow flowing in at least one of the outdoor air passage and the indoor air passage;

a plurality of heat exchanging elements mounted at an outer circumferential surface of the shaft, the heat exchanging elements being rotatable on the shaft by the air flow to exchange heat between air in the outdoor air passage and air in the indoor air passage;

a hub on the shaft; and

a support rib along an outer circumferential surface of the heat exchanging elements, each of the heat exchanging elements extending from the hub to the support rib.

9. (Previously Presented) The ventilating device of claim 8, wherein each of the heat exchanging elements has substantially a same curved shape.

10. (Currently Amended) The ventilating device of claim 9, wherein each of the heat exchanging elements has a concave surface ~~and a lateral surface, a normal of the lateral surface being in parallel with the axis of the shaft.~~

11. (Previously Presented) The ventilating device of claim 10, wherein the air flow flows onto the concave surface to rotate the heat exchanging elements.

12. (Previously Presented) The ventilating device of claim 1, wherein each of the heat exchanging elements has substantially a same curved shape.

13. (Currently Amended) The ventilating device of claim 12, wherein each of the heat exchanging elements has a concave surface ~~and a lateral surface, a normal of the lateral surface being in parallel with the axis of the shaft.~~

14. (Previously Presented) The ventilating device of claim 13, wherein the air flow flows onto the concave surface to rotate the heat exchanging elements.

15. (Currently Amended) The ventilating device of claim 1, wherein each of the heat exchanging elements has a concave surface ~~and a lateral surface, a normal of the lateral surface being in parallel with the axis of the shaft.~~

16. (Previously Presented) The ventilating device of claim 15, wherein the air flow flows onto the concave surface to rotate the heat exchanging elements.

17. (Previously Presented) The ventilating device of claim 1, wherein the outdoor air passage is parallel to the indoor air passage.

18. (Previously Presented) The ventilating device of claim 1, wherein the axis is perpendicular to the direction of the air flow.